

CLAIMS

We claim:

- 1 1. A method comprising:
2 encoding a first coefficient value in a first frame of a motion sequence;
3 subsequently setting a second coefficient in a second frame of the
4 motion sequence and in the same position as the first coefficient to be within
5 a predetermined closeness with the value of the first coefficient.
- 1 2. The method defined in Claim 1 wherein the predetermined
2 closeness is within a quantization bin size.
- 1 3. The method defined in Claim 1 wherein the predetermined
2 closeness is within twice a quantization bin size.
- 1 4. The method defined in Claim 1 wherein the second coefficient
2 is set to the same value as the first coefficient.

1 5. The method defined in Claim 1 further comprising
2 determining whether quantization is applied to the first coefficient, wherein
3 setting the second coefficient occurs only if the same quantization was
4 applied to the first coefficient.

1 6. The method defined in Claim 1 wherein setting the second
2 coefficient to the value near the first coefficient occurs only if the absolute
3 value of a difference between a quantized version of the first coefficient and
4 a result of applying a scalar quantization to the second coefficient is less than
5 a threshold value.

1 7. The method defined in Claim 6 wherein the threshold
2 comprises a value equal to twice the quantization step size.

1 8. An article of manufacture comprising at least one recordable
2 media storing executable instructions thereon which, when executed by a
3 processing device, cause the processing device to:
4 encode a first coefficient value in a first frame of a motion sequence;

5 subsequently set a second coefficient in a second frame of the motion
6 sequence and in the same position as the first coefficient to be within a
7 predetermined closeness with the value of the first coefficient.

1 9. The article of manufacture defined in Claim 8 wherein the
2 predetermined closeness is within a quantization bin size.

1 10. The article of manufacture defined in Claim 8 wherein the
2 predetermined closeness is within twice a quantization bin size.

1 11. The article of manufacture defined in Claim 8 wherein the
2 second coefficient is set to the same value as the first coefficient.

1 12. An apparatus comprising:
2 means for encoding a first coefficient value in a first frame of a motion
3 sequence;
4 means for subsequently setting a second coefficient in a second frame
5 of the motion sequence and in the same position as the first coefficient to be
6 near to the value of the first coefficient.

1 13. The apparatus defined in Claim 12 wherein the predetermined
2 closeness is within a quantization bin size.

1 14. The apparatus defined in Claim 12 wherein the predetermined
2 closeness is within twice a quantization bin size.

1 15. The apparatus defined in Claim 12 wherein the second
2 coefficient is set to the same value as the first coefficient.

1 16. An encoding apparatus comprising:
2 a wavelet transform;
3 a quantizer coupled to the wavelet transform, the quantizer
4 comprising:
5 a first memory to store a threshold value,
6 a second memory to store quantized versions of coefficients in
7 a previous frame of a motion sequence, and
8 quantization logic to set a first coefficient value in a subsequent
9 frame to a value within a predetermined closeness to that of a second
10 coefficient at the same position in the previous frame.

1 17. The encoding apparatus defined in Claim 16 wherein the
2 quantization logic determines whether quantization is applied to the first
3 coefficient and sets the second coefficient occurs only if quantization was
4 applied to the first coefficient.

1 18. The encoding apparatus defined in Claim 16 wherein the
2 quantization logic sets the second coefficient to the value of the first
3 coefficient only if the absolute value of a difference between a quantized
4 version of the first coefficient and a result of applying a scalar quantization
5 to the second coefficient is less than a threshold value.

1 19. The encoding apparatus defined in Claim 16 wherein the
2 threshold comprises a value equal to twice the quantization step size.

1 20. The encoding apparatus defined in Claim 16 wherein the
2 predetermined closeness is within a quantization bin size.

1 21. The encoding apparatus defined in Claim 16 wherein the
2 predetermined closeness is within twice a quantization bin size.

- 1 22. The encoding apparatus defined in Claim 16 wherein the
- 2 second coefficient is set to the same value as the first coefficient.